



# Missile Defense and Security Dilemma

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# Argument

- Security dilemma has two mechanisms
  - Intensive
  - Extensive
- So does an arms race
  - Intensive between two
  - Extensive among more than two
- Therefore, arms control measures have to address both

# Intensive Arms Race in Korea

THAAD;  
Preemptive strikes

SLBMs; Mobile launchers;  
Deceptive maneuvers

Patriots;  
Counter-battery

Nuclear ICBMs

U.S. Nuclear  
Deterrent

Long-range artilleries;  
short-range missiles

**KOREAN WAR**



# SLBM Test Launch



# Warhead Deceptive Maneuvering



# Time on Target (TOT) Practice



# Mobility and Concealment



# Extensive Arms Race in Northeast Asia

NK IRBMs

North  
Korea's  
ICBMs

U.S. THAAD;  
SM-3 IB

Japan ANT2  
Radars; SM-3 IIA  
research ; Aegis  
Ashore

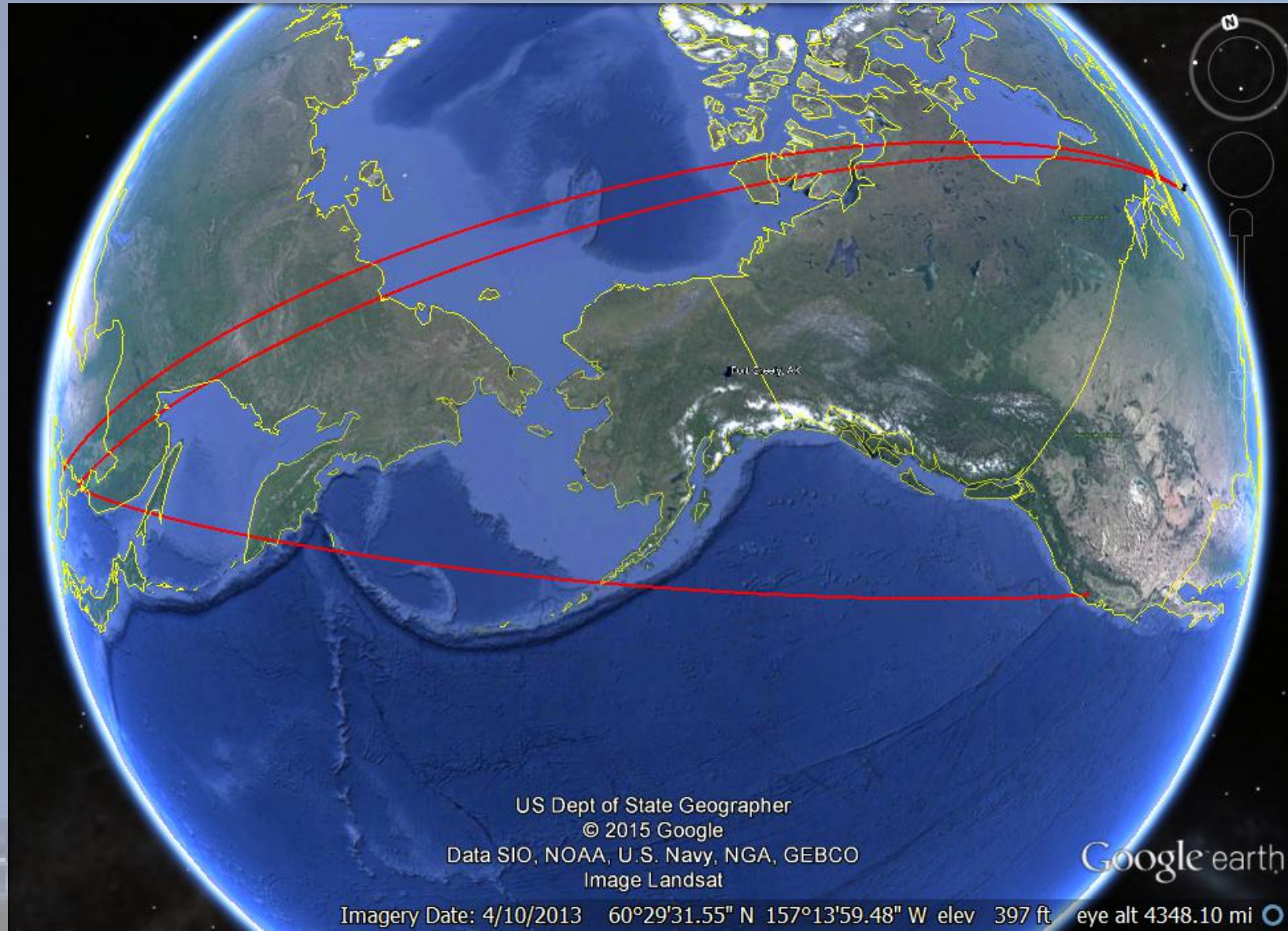
China IRBMs

China MIRVed  
ICBMs



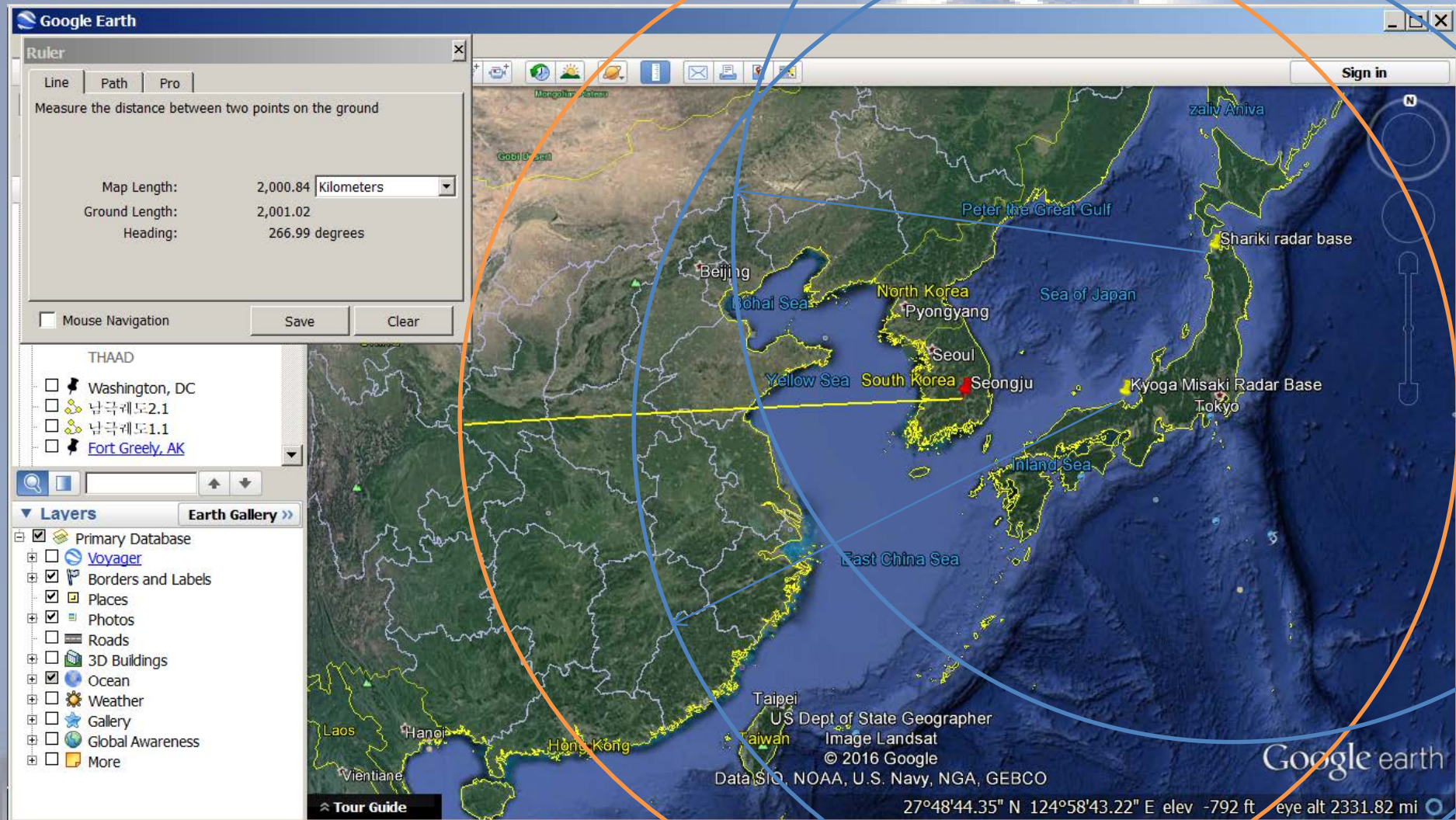


# North Korea's ICBM Trajectories

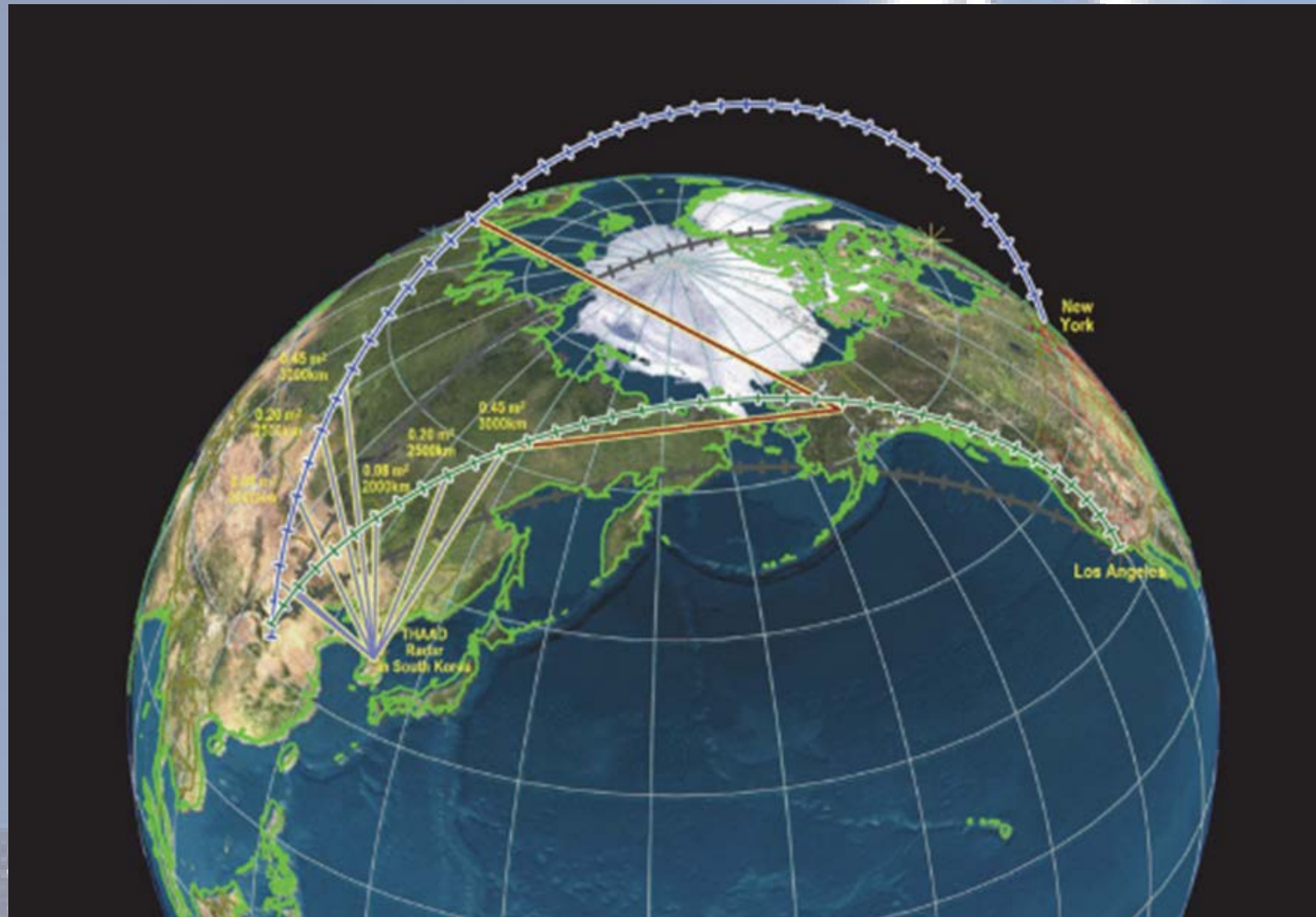




# THAAD Radar Range

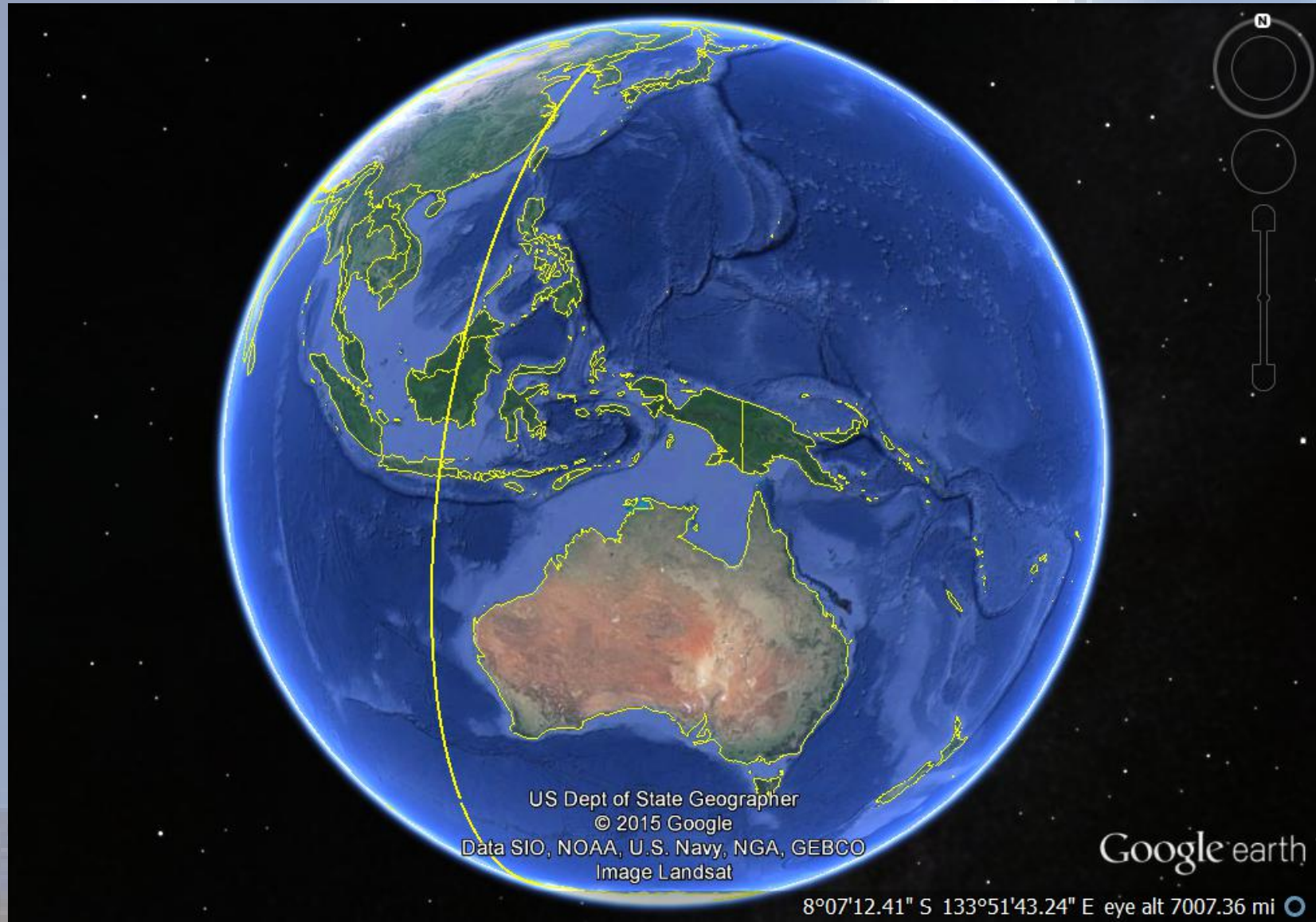


# THAAD and GMD against Chinese ICBMs





# North Korea's EMP Trajectory





# Regional Arms Control

NK IRBMs

North  
US-NK  
Korea's  
Summit  
ICBMs

U.S. THAAD;  
SM-3 IB

Japan AN2P  
Radars; SM-3 IIA  
research ; Aegis  
Ashore

China MIRV

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# Boost Phase Intercept

- solid fuel ICBM

